

**Cost Estimate Summary
Water Supply Project Option
September 2023 Prices
Mercedes - New Brackish Groundwater Desalination**

**Cost based on ENR CCI 13485.67 for September 2023 and
a PPI of 278.502 for September 2023**

<i>Item</i>	<i>Estimated Costs for Facilities</i>
Intake Pump Stations (0 MGD)	\$2,232,000
Transmission Pipeline (24 in. dia., 7 miles)	\$13,243,000
Well Fields (Wells, Pumps, and Piping)	\$17,902,000
Water Treatment Plant (5 MGD)	\$49,489,000
Integration, Relocations, Backup Generator & Other	\$64,000
TOTAL COST OF FACILITIES	\$82,930,000
- Planning (3%)	\$2,488,000
- Design (7%)	\$5,805,000
- Construction Engineering (1%)	\$829,000
Legal Assistance (2%)	\$1,659,000
Fiscal Services (2%)	\$1,659,000
Pipeline Contingency (15%)	\$1,986,000
All Other Facilities Contingency (20%)	\$13,937,000
Environmental & Archaeology Studies and Mitigation	\$703,000
Land Acquisition and Surveying (123 acres)	\$875,000
Interest During Construction (3.5% for 1.5 years with a 0.5% ROI)	<u>\$5,500,000</u>
TOTAL COST OF PROJECT	\$118,371,000
ANNUAL COST	
Debt Service (3.5 percent, 20 years)	\$8,324,000
Reservoir Debt Service (3.5 percent, 40 years)	\$0
Operation and Maintenance	
Pipeline, Wells, and Storage Tanks (1% of Cost of Facilities)	\$312,000
Intakes and Pump Stations (2.5% of Cost of Facilities)	\$56,000
Dam and Reservoir (1.5% of Cost of Facilities)	\$0
Water Treatment Plant	\$9,639,000
Advanced Water Treatment Facility	\$0
Pumping Energy Costs (1652957 kW-hr @ 0.09 \$/kW-hr)	\$149,000
Purchase of Water (acft/yr @ \$/acft)	<u>\$0</u>
TOTAL ANNUAL COST	\$18,480,000
Available Project Yield (acft/yr)	5,600
Annual Cost of Water (\$ per acft), based on PF=1	\$3,300
Annual Cost of Water After Debt Service (\$ per acft), based on PF=1	\$1,814
Annual Cost of Water (\$ per 1,000 gallons), based on PF=1	\$10.13
Annual Cost of Water After Debt Service (\$ per 1,000 gallons), based on PF=1	\$5.56